



# SPYWOLF

## Security Audit Report



Completed on  
**July 24, 2023**

@SPYWOLFNETWORK



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SPYWOLF.CO





# OVERVIEW

This audit has been prepared for **KoKo** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

*The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*

- SPYWOLF Team -

”





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# KoKo



## PROJECT DESCRIPTION

### **According to their website:**

Everyone looks at cute dogs, hamsters, frogs and sadly regrets that they did not have time to “take” them for themselves.

More recently, they were the kings of meme tokens, but alas, their time has passed. It's time for KoKo!

**Release Date:** Presale starts in July, 2023

**Category:** Meme token



# CONTRACT INFO

Token Name	Symbol
Chicken Song	KoKo
Contract Address	
0x7d7e07fa445c70b73e8025afd15d87c4f2ea44e2	
Network	Language
Ethereum	Solidity
Deployment Date	Verified?
Jul 22, 2023	Yes
Total Supply	Status
500,000,000,000,000	Not launched

## TAXES



\*Taxes can be changed in future



## Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



# TOKEN TRANSFERS STATS

Transfer Count	1
Uniq Senders	1
Uniq Receivers	1
Total Amount	5000000000000000 KoKo
Median Transfer Amount	5000000000000000 KoKo
Average Transfer Amount	5000000000000000 KoKo
First transfer date	2023-07-22
Last transfer date	2023-07-22
Days token transferred	1

# SMART CONTRACT STATS

Calls Count	1
External calls	1
Internal calls	0
Transactions count	1
Uniq Callers	1
Days contract called	1
Last transaction time	2023-07-22 22:25:11 UTC
Created	2023-07-22 22:25:11 UTC
Create TX	0xcc53a589f58db9b9652cfa7630c74d1d7f7054a378a6058f41a7520b8704a2d4
Creator	0x70be1aea2793de4ef91b6390b878dacf0e00a5d6



# VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed





# THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

## High Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Medium Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Low Risk

---

Issues on this level are minor details and warning that can remain unfixed.

## Informational

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Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.





# FOUND THREATS

## ⚠ High Risk

Owner can set buy/sell fees up to 100%.

```
function setStructure(uint256 _percentonbuy, uint256 _percentonsell, uint256 _wallettransfer) external onlyOwner {
    sellpercent = _percentonsell;
    buypercent = _percentonbuy;
    transferpercent = _wallettransfer;
}

function setParameters(uint256 _liquidityFee, uint256 _buybackFee, uint256 _marketingFee, uint256 _devFee,
uint256 _burnFee, uint256 _feeDenominator) external onlyOwner {
    liquidityFee = _liquidityFee;
    buybackFee = _buybackFee;
    marketingFee = _marketingFee;
    devFee = _devFee;
    burnFee = _burnFee;
    totalFee = _liquidityFee.add(_buybackFee).add(_marketingFee).add(_devFee).add(_burnFee);
    feeDenominator = _feeDenominator;
    require(totalFee < feeDenominator / 2, "Fees can not be more than 50%");
    set_fees();
}

function takeFee(address sender, uint256 amount, address recipient) internal returns (uint256) {

    uint256 percent = transferpercent;
    if(recipient == pair) {
        percent = sellpercent;
    } else if(sender == pair) {
        percent = buypercent;
    }

    uint256 feeAmount = amount.mul(totalFee).mul(percent).div(feeDenominator * 100);
    uint256 burnTokens = feeAmount.mul(burnFee).div(totalFee);
    uint256 contractTokens = feeAmount.sub(burnTokens);
    _balances[address(this)] = _balances[address(this)].add(contractTokens);
    _balances[burnFeeReceiver] = _balances[burnFeeReceiver].add(burnTokens);
    emit Transfer(sender, address(this), contractTokens);

    if(burnTokens > 0){
        _totalSupply = _totalSupply.sub(burnTokens);
        emit Transfer(sender, ZERO, burnTokens);
    }

    return amount.sub(feeAmount);
}
```

- Recommendation:
  - Considered as good tax deduction practice is buy and sell fees combined not to exceed 25%.



# FOUND THREATS

## ⚠ Medium Risk

Owner can change contract's auto swap settings.

If swapEnabled is true and swapThreshold's value is 0 and contract's token balances are 0, contract will halt on sell and selling will fail.

```
function setSwapBackSettings(bool _enabled, uint256 _amount) external onlyOwner {
    swapEnabled = _enabled;
    swapThreshold = _amount;
    emit set_SwapBack(swapThreshold, swapEnabled);
}

function shouldSwapBack() internal view returns (bool) {
    return msg.sender != pair
    && !inSwap
    && swapEnabled
    && _balances[address(this)] >= swapThreshold;
}

function _transferFrom(address sender, address recipient, uint256 amount) internal returns (bool) {
    .....
    if(shouldSwapBack()){ swapBack(); }
    .....
}

function swapBack() internal swapping {
    uint256 dynamicLiquidityFee = checkRatio(setRatio, setRatioDenominator) ? 0 : liquidityFee;
    uint256 amountToLiquify = swapThreshold.mul(dynamicLiquidityFee).div(totalFee).div(2);
    uint256 amountToSwap = swapThreshold.sub(amountToLiquify);
    .....
}
```

- Recommendation:
  - Ensure that swapThreshold's value is always above 1 token (consider decimals).



## Informational

Owner can set max wallet limit but cannot lower it than 0.1% of total supply.

```
function maxWalletRule(uint256 maxWallPercent) external onlyOwner {  
    require(maxWallPercent >= 1);  
    _maxWalletToken = (_totalSupply * maxWallPercent) / 1000;  
    emit set_MaxWallet(_maxWalletToken);  
}
```

Autoliquidity receiver (owner) will receive any tokens withdrawn from the contract. When this function is present, in cases tokens sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function manualSend() external {  
    payable(autoLiquidityReceiver).transfer(address(this).balance);  
}  
  
function clearStuckToken(address tokenAddress, uint256 tokens) external returns (bool success) {  
    if(tokens == 0){  
        tokens = ERC20(tokenAddress).balanceOf(address(this));  
    }  
    emit ClearToken(tokenAddress, tokens);  
    return ERC20(tokenAddress).transfer(autoLiquidityReceiver, tokens);  
}
```



RECOMMENDATIONS FOR

# GOOD PRACTICES

---

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

## KoKo

### GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot set a transaction limit but only removes it. Current max transaction limit is 1% of total supply.
- ✓ The smart contract utilizes "SafeMath" to prevent overflows



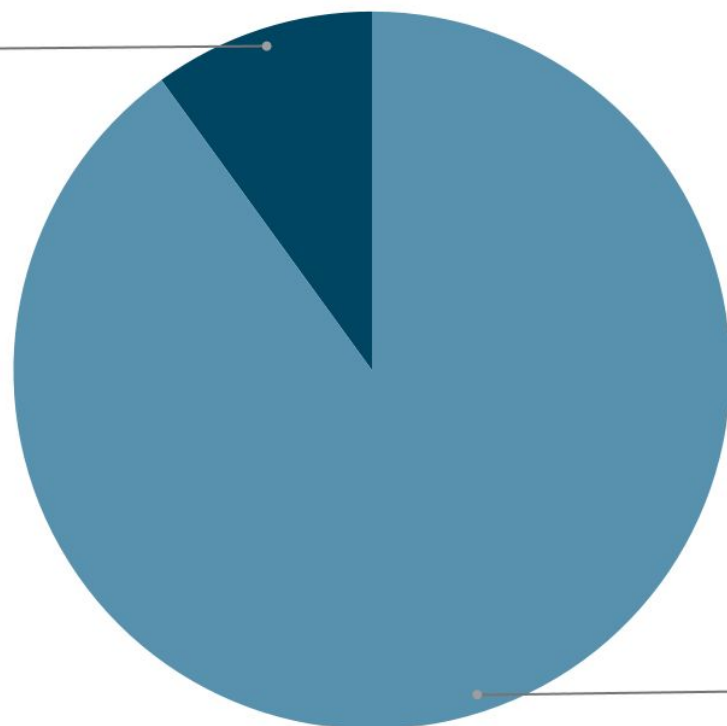
The following tokenomics are based on the project's whitepaper and/or website:

- 90% - DEX Listings
- 10% - CEX Listings

### Tokens distribution

CEX Listings

10,0%



DEX Listings

90,0%

TOKENOMICS



# THE TEAM

⚠ The team is anonymous

## KYC INFORMATION

### No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





# WEBSITE

## Website URL

<https://meme-koko.com/>

## Domain Registry

<https://joker.com>

## Domain Expiration

2026-07-17

## Technical SEO Test

Passed

## Security Test

Passed. SSL certificate present

## Design

Single page design with appropriate color scheme and graphics.

## Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

## Whitepaper

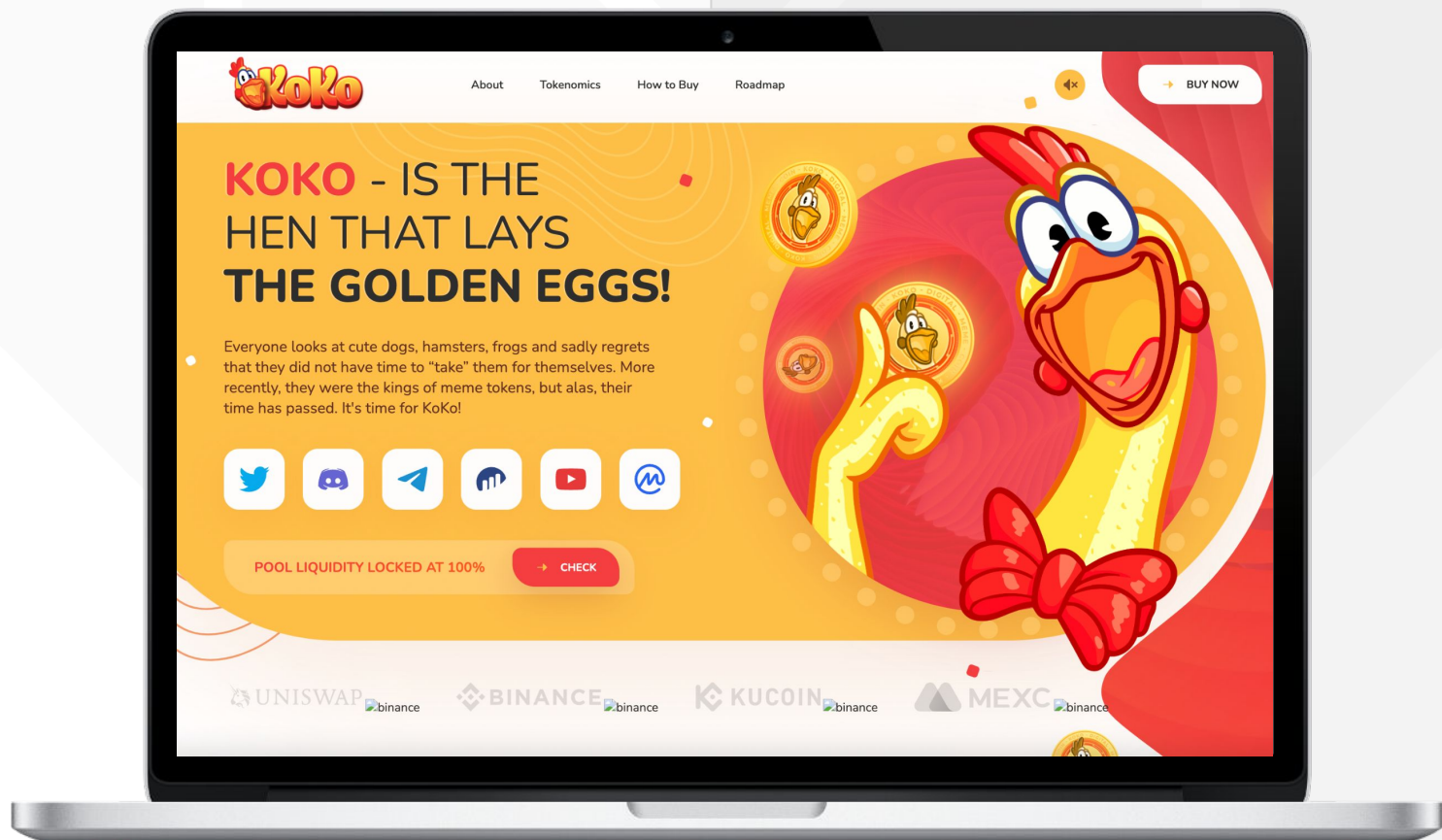
No

## Roadmap

Yes, goals set with time frames.

## Mobile-friendly?

Yes



# meme-koko.com

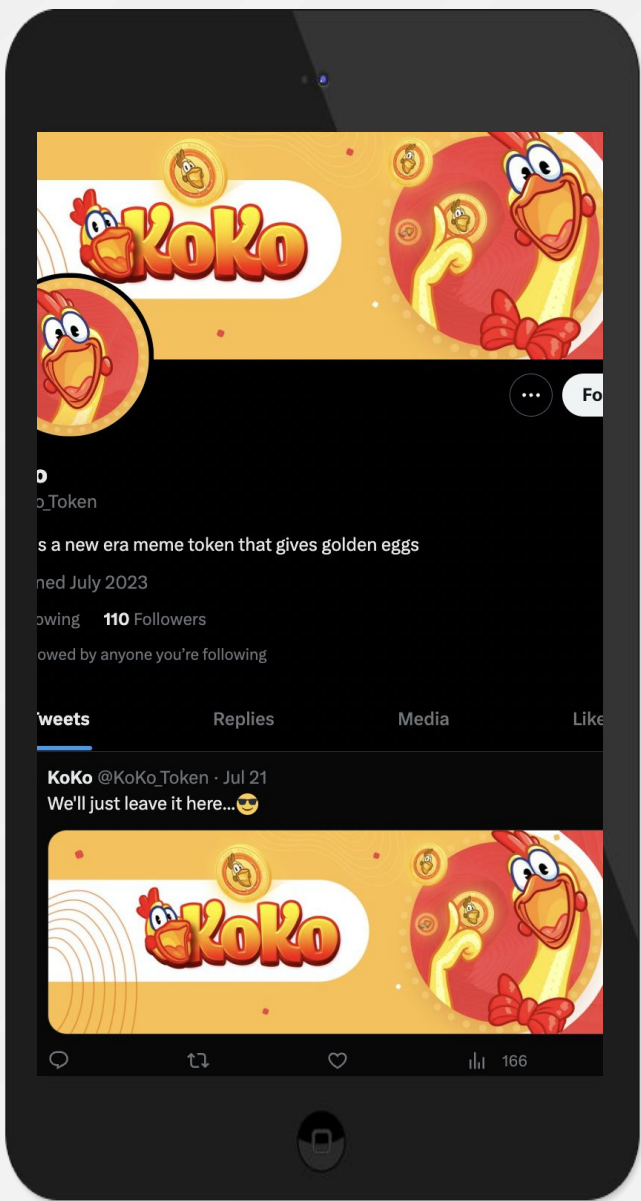
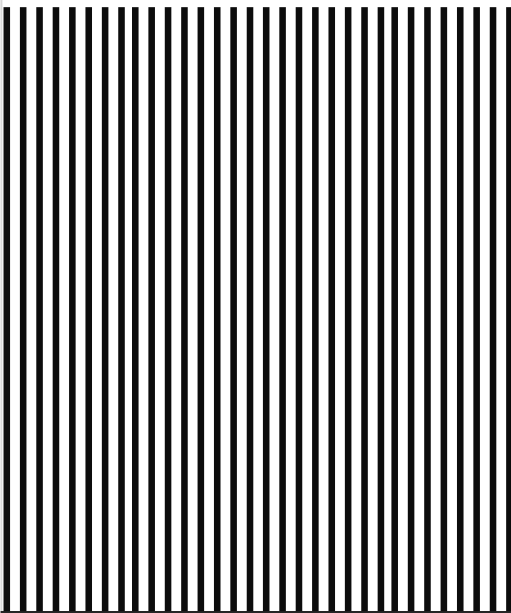




# SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS  
Project's social media  
pages are new



Twitter

@KoKo\_Token

- 109 followers
- 1 Total post
- New account



Discord

- Not available



Telegram

@koko\_token

- 269 members
- No posts



Medium

- Not available



# SPYWOLF

## CRYPTO SECURITY

Audits | KYCs | dApps  
Contract Development

# ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.